

*Abstract of Cited Reference (2)***PATENT ABSTRACTS OF JAPAN**(11)Publication number : **08-122429**(43)Date of publication of application : **17.05.1996**

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G01S 13/74**H04B 1/59**(21)Application number : **06-260587**(71)Applicant : **SUMITOMO ELECTRIC IND LTD**(22)Date of filing : **25.10.1994**(72)Inventor : **ARAKI TADASHI****(54) INTERFERENCE COMPENSATOR FOR MOBILE IDENTIFICATION SYSTEM****(57)Abstract:**

PURPOSE: To remove the effect of interference signal produced in an interrogator by processing a part of transmission signal to have reverse phase and same amplitude as the interference signal thereby producing a compensation signal.

CONSTITUTION: A demultiplexer 101 at an interference signal compensating section 200 branches a part of transmission signal outputted from a transmission system 100 and delivers the branched part to a phase shifter 102. The phase shifter 102 converts the received signal to have a reversed phase and an attenuator 103 converts the output signal from the phase shifter 102 to have same amplitude as an interference signal thus producing a compensation signal. A multiplexer 104 multiplexes the compensation signal and an interference signal mixed from a circulator 29, comprising a signal mixed from the transmission system 100 and a signal reflected one the end of an antenna 30, thus removing the interference signal.

